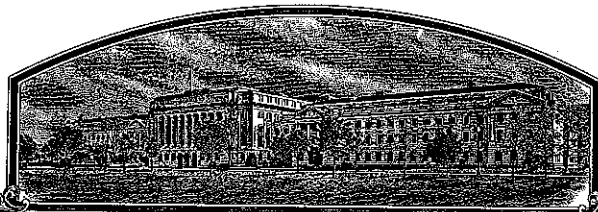


No.

200400071



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SAID APPLICANT(S) TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, ROUGH

'RAM100'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twentieth day of August, in the year two thousand and eight.

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]


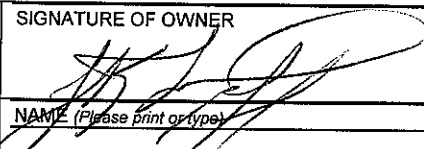
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Pure Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PST-OLS	3. VARIETY NAME RAM100
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) P.O. Box 449 Hubbard, OR 97032		5. TELEPHONE (include area code) (503) 651-2130	FOR OFFICIAL USE ONLY PVPO NUMBER 200400071 FILING DATE 1/23/2004
		6. FAX (include area code) (503) 263-0703	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation	8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon	9. DATE OF INCORPORATION June 3, 1975 (BT: 6/19/2008)	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Crystal Rose-Fricker Pure Seed Testing, Inc. P.O. Box 449 Hubbard, OR 97032			FILING AND EXAMINATION FEES: \$ 3652 DATE 1/23/2004 CERTIFICATION FEE: \$ 768.00 DATE 8/12/2008
11. TELEPHONE (Include area code) (503) 651-2130	12. FAX (Include area code) (503) 263-0703	13. E-MAIL pureseedtesting.com crystal@turf-seed.com	14. CROP KIND (Common Name) Poa Trivialis
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse.)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety		<input type="checkbox"/> YES (If "yes," answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)	
b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety		IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)		21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership		IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8	
f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)		(If additional explanation is necessary, please use the space indicated on the reverse.)	
g. <input checked="" type="checkbox"/> Filing and Examination fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (BT: 6/30/2008)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 	
NAME (Please print or type) Crystal Rose-Fricker		NAME (Please print or type) Joseph K. Wipff, Ph.D.	
CAPACITY OR TITLE President	DATE 1/5/04	CAPACITY OR TITLE Taxonomist/Plant Breeder	DATE 1/5/04

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the Certificate.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

#200400071

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
21. **CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. **CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

The first date of sale for RAM100 was 20 August 2003.

23. **CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the applicant/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete.

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Exhibit A - Revised

**Origin and Breeding History of
RAM100 (PST- OLS) (*Poa Trivialis* L.)**

#200400071

RAM100 (PST-OLS) rough stalked bluegrass (*Poa trivialis* L.) is an advanced synthetic cultivar developed by Pure Seed Testing, Inc. It is the result of an isolated polycross of 24 plants selected for dark color, compactness, basal leaves and freedom of disease. These plants trace their origins to four maternal sources.

1. Fourteen plants were selected from the populations 003 and 001, that were comprised of selections from the cultivar Winterplay crossed with collections from Steptoans College in Missouri and Happy Hollow, Nebraska.
2. One plant was from the 003 population that traces its maternal origin to a collection from Happy Hollow, Nebraska.
3. Four plants trace their maternal origins to a contaminant selection made from a shade trial at Pure Seed Testing, Inc., near Hubbard, Oregon.
4. Five plants were either from the 003 or 002 populations or a contaminant in turf plots in a shade trial near Hubbard, OR.

Twenty-six parents originally made up the OLS population, but only 24 maternal plants were selected.

In the fall of 1994, progenies from the 24 plants comprising the population OLS were started and transplanted to a breeder seed nursery of 2,624 plants. Prior to anthesis, plants were removed to increase uniformity and maturity and to remove any plants susceptible to diseases. In the summer of 1995, 1,049 plants were harvested to produce the first breeder seed of PST-OLS (see attached breeder history for additional information).

Breeder seed is produced from clones maintained vegetatively in Oregon. Breeder seed is used to establish one generation each of foundation and certified seed.

No variants or off-types have been observed in the reproduction and multiplication of RAM100.

Breeder, foundation and certified seed will produce turf and seed fields of equal quality, acceptable uniformity and good stability. RAM100 has shown stability and uniformity multiplied from Breeder seed through the Certified seed generation.

OLS
2624 plants, planted Fall 1994
Breeder Seed Harvested Summer 1995
1049 plants harvested

#200400071

Novelty Statement for RAM100 (PST-OLS) (*Poa Trivialis* L.)

RAM100 (PST-OLS) is most similar to Winterplay, but close examination shows the following differences.

1. RAM100 has a mature plant height at least 7.1 cm shorter than Winterplay (Tables 1 and 2).
2. RAM100 has a panicle length at least 1.2 cm shorter than Winterplay (Tables 1 and 2).
3. RAM100 has a flag leaf height at least 5.6 cm shorter than Winterplay (Tables 1 and 2).

Table 1. 2001 mean morphological measurements for entries in a *Poa trivialis* seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Plant		Panicle		Top	
	Height (cm)	Length (cm)	Height (cm)	Length (cm)	Flag Leaf Height (cm)	Flag Leaf Height (cm)
Winterplay	76.2	12.0	45.7			
RAM100	69.1	9.9	38.5			
LSD (0.05)		2.2	0.8	2.1		

Table 2. 2002 mean morphological measurements for entries in a *Poa trivialis* seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Plant		Panicle		Top	
	Height (cm)	Length (cm)	Height (cm)	Length (cm)	Flag Leaf Height (cm)	Flag Leaf Height (cm)
Winterplay	57.6	9.2	28.6			
Sabre	56.0	10.1	29.1			
RAM100	42.7	8.0	23.0			
LSD (0.05)		2.5	0.5	1.5		

Table 3. 1998 mean morphological measurements for entries in a *Poa trivialis* seed yield trial seeded fall of 1996 near Hubbard, OR

Entry	Plant Height (cm)	Flag		Tiller		Flag		Tiller		Flag		Panicle		Length		Branches In Lowest Whorl (#)	Tiller Count (#/12.7 cm Row)
		Height (cm)	Length (cm)	Leaf Length (mm)	Leaf Width (mm)	Leaf Length (cm)	Leaf Width (mm)	Leaf Length (cm)	Leaf Sheath Length (cm)	Panicle Length (cm)	Collar To Panicle Tip (cm)						
Sabre	64.8	33.3	7.9	2.6	2.6	6.4	2.6	14.0	4.9	10.4	27.3	4.0	48.1				0
RAM100	50.0	30.5	6.2	2.4	2.1	5.4	2.1	12.0	5.0	10.0	25.1	3.9	58.1				0
LSD (0.05)	3.4	2.1	0.5	0.3	0.3	0.4	0.3	1.2	0.3	0.6	1.6	0.3	19.5				4
																	0
																	0
																	0
																	0
																	7
																	1

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(BLUEGRASS)**

**OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS
(*Poa* spp.)**

NAME OF APPLICANT(S) Pure Seed Testing, Inc.	TEMPORARY DESIGNATION PST-OLS	VARIETY NAME RAM100
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 449, Hubbard, OR 97032		FOR OFFICIAL USE ONLY PVPO NUMBER #200400071

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g. 089). Those characteristics marked with a star * are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate the system used:

Describe location of test area, conditions, and number of Plants used: Pure Seed Testing Research Farm near Hubbard, OR. Sixty plants measured from P.V.P. nursery planted in a randomized complete block with three replications of 20 plants each.

1. SPECIES:

(bts 7/27/05) ☒ 1 = *Poa compressa* ☐ 2 = *P. pratensis* ☐ 3 = *P. trivialis* ☐ 4 = Others (Please Specify):

☐ ☐ ☐ Chromosome Number

2. ADAPTATION: (0 = Not Tested, 1 = Not Adapted, 2 = Adapted, 3 = Well Adapted)

<input type="checkbox"/> 2 Northeast	<input type="checkbox"/> 2 Transitional Zone	<input type="checkbox"/> 2 Southeast	<input type="checkbox"/> 2 North Central
<input type="checkbox"/> 2 Pacific N.W.	<input type="checkbox"/> 0 Intermountain	<input type="checkbox"/> 2 Southwest (CA, AZ)	<input type="checkbox"/> 0 Other (Please Specify): <i>For overseeding of dormant Bermuda.</i>

3. MATURITY (At first anthesis): Give test area near Hubbard, Oregon.

★ ☐ 4 1 = Very Early 2 = Early (Delta, Mystic) 3 = Medium Early (Fylking, Nugget)
4 = Medium late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi)
6 = Very Late (Pacific)

Date of First Anthesis: June 11, 2002

<input type="checkbox"/> <input type="checkbox"/>	Number of days earlier than	★ <input type="checkbox"/>	} 1 = Nugget 2 = Frylking 3 = Delta 4 = Merion 5 = Newport 6 = Baron 7 = Mystic 8 = Sabre 9 = Reubens 10 = Winterplay
	Maturity same as	★ <input type="checkbox"/> 10	
<input type="checkbox"/> <input type="checkbox"/>	Number of days later than	★ <input type="checkbox"/>	

4. PLANT HEIGHT (At maturity-Average of longest shoot of 10 plants from soil surface to top of panicle): *Test Area* Hubbard, OR
 ★ 1 = Short 2 = Medium short (Baron, Fylking, Mystic)
 3 = Medium tall (Merion, Adelphi) 4 = Tall (delta) 5 = Very tall

★ cm Height

cm Shorter than

Height same as

cm Taller than

★

★

★

#200400071

1 = Nugget

2 = Frylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 =Mystic

8 = Sabre

9 = Reubens

5. GROWTH HABIT:

★ Habit: 1 = Prostrate (Nugget) 2 = Semiprostrate (Merion) 3 = Erect (Delta)

cm Amount of spread by rhizomes in 1 year (give test area: _____)

6. LEAF BLADE:

★ Green color: 1 = Light green (Mystic) 2 = Medium green (Fylking, Bonnieblue)
 3 = Moderately dk. green (Merion, Adelphi) 4 = Very dk. green (Nugget, Glade, Enmundi)

★ Bluegreen color: 1 = Not bluegreen (Mystic, Touchdown, Parade) 2 = Moderately bluegreen (Merion, A-34)
 3 = Bluegreen (Nugget, Enmundi, Adelphi) 4 = Strongly bluegreen (Majestic)

Winter color: 1 = Light green 2 = Dark green 3 = Light purple
 4 = Dark purple 5 = Not purple 6 = Not green or purple

★ Hairs upper side: 1 = Absent (Nugget) 2 = Sparse (Merion) 3 = Dense (Park)

Hairs lower side: 1 = Absent (Fylking, Merion) 2 = Sparse 3 = Dense (Nugget)

Luster upper side: 1 = Shiny (Eclipse, Enmundi) 2 = Dull (Aquila, Parade)

Luster lower side: 1 = Shiny (Mystic, Enmundi) 2 = Dull (Barbie, Eclipse)

★ Margin hairs 1 = Absent (Delta) 2 = Present (Fylking, Merion)
 (Fringe on Margin or Base):

★ Width: 1 = Very fine (Mystic) 2 = Fine (Nugget) 3 = Medium (Merion, Fylking)
 4 = Broad (Adelphi, Baron) 5 = Very broad (Monopoly)

mm Width (tiller leaf) *See Table 3*

mm Narrower than

Width same as

mm Wider than

★

★

★

1 = Nugget

2 = Frylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 = Mystic

8 = Sabre

9 = Reubens

mm Length (tiller leaf)

mm Shorter than

Length same as

mm Longer than

★

★

★

1 = Nugget

2 = Frylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 = Mystic

8 = Sabre

9 = Reubens

2 Position of flag leaf (angle to stem): 1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

7. LEAF SHEATH: See Table 3.

50 mm sheath length

★ 2 Seedling Color (base of sheath): 1 = Green (Nugget, Merion)

2 = Red (Delta)

★ 1 Hairs on Margin: 1 = Absent (Fylking)

2 = Present (Nugget)

★ 2 Margin Roughness (to touch): 1 = Smooth (Delta)

2 = Rough (Sabre)

1 Hairs on Surface: 1 = Absent ()

2 = Present (Nugget)

2 Surface Roughness (to touch): 1 = Smooth (Fylking)

2 = Rough (Ram I)

1 Hairs on both sides just beneath leaf blade (under collar): 1 = Absent (Merion) 2 = Present (Nugget)

★ 1 Hairs on ligule: 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)

1 Glaucosity: 1 = Absent (Mystic, Enmundi) 2 = Present (Birka)

1 Keel: 1 = Absent (Ram I) 2 = Present (Adelphi)

#200400071

8. PANICLE (Mature Plant):

1 0 0 mm Length (Lowest branch whorl to top, for 10 plants) Test Area: See Table 3.

mm Shorter than 8 1 = Nugget 2 = Fylking 3 = Delta

Panicle same as 4 = Merion 5 = Newport 6 = Baron

mm Longer than 7 = Mystic 8 = Sabre 9 = Reubens

★ 2 Color (at 50% flowering): 1 = Not red (Fylking) 2 = Red (Nugget)

2 Shape of Rachis (opposite lower side branches): 1 = No bend (Nugget) 2 = Bend (Merion)

★ 1 Collar: 1 = Opened (Nugget) 2 = Closed (Merion)

★ 3 Branches Attitude (Lowest whorl): 1 = Drooping (America, Prato) 2 = Horizontal (Merion) 3 = Ascending (Tundra)

4 Number of main branches in lowest whorl:

★ 2 Panicle habit: 1 = Nodding (Newport) 2 = Upright (Nugget)

★ 1 Panicle type: 1 = Open 2 = Intermediate 3 = Compact

2 Anther color (anthesis): 1 = Purple 2 = Yellow 3 = Brown

9. LEMMA

★ 1 Keel 1 = Glabrous 2 = Slightly pubescent 3 = Pubescent

★ 1 Marginal Nerves 1 = ~~Glabrous~~ Distinct 2 = ~~Slightly pubescent~~ Obscure 3 = ~~Pubescent~~

1 Intermediate Nerves: 1 = Distinct 2 = Obscure

3 Basal Webbing: 1 = Absent 2 = Scant (Baron) 3 = Copious (Merion)

(BT:6/20/2008)

10. SEED: (Floret-not dehulled)

#200400071

★ Apomixis Percentage: 1 = more than 95 2 = 85 to 95 3 = less than 85
 Phenol Reaction: 1 = none-lemma removed (Merion) 2 = Beige (Cougar) 3 = Brown (Windsor)
 4 = Black (Mystic -2hrs) 5 = Black (-24hrs)

mm Width (average of 10) mm Length

Milligrams per 10,000 seed

Milligrams less than } 1 = Nugget 2 = Frylking 3 = Delta

Weight same as } 4 = Merion 5 = Newport 6 = Baron

Milligrams more than } 7 = Mystic 8 = Sabre 9 = Reubens

Weight Class (g per 10,000 seed): 1 = Light (< 3g Sydsport, Merion)
 2 = Medium (3g - 4g Adelphi, Parade)
 3 = Heavy (> 4g Fylking, Nugget)

11. ENVIRONMENTAL RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

★ Cool Temperature (Winter color) Cold (injury) Heat Drought
 Shade Low Fertility Acid Soil (< pH 5.5) Alkalinity (pH > 7.5)
 Salinity Soil Compaction Poor Drainage Air Pollution
 Other (Please Specify):

12. DISEASE RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

<input type="text" value="0"/> Melting-Out <i>Drechslera poae</i> (<i>Helminthosporium vagans</i>)	<input type="text" value="0"/> Sclerotinia <i>S. borealis</i>
<input type="text" value="0"/> Helminthosporium Leaf Spot <i>Bipolaris sorokiniana</i>	<input type="text" value="0"/> Stem Rust <i>Puccinia graminis</i>
<input type="text" value="0"/> Brown Patch <i>Rhizoctonia solani</i>	<input type="text" value="0"/> Stripe Rust <i>P. striiformis</i>
<input type="text" value="0"/> Powdery Mildew <i>Erysiphe graminis</i>	<input type="text" value="0"/> Leaf Rust <i>P. poae-nemoralis</i>
<input type="text" value="0"/> Stripe Smut <i>Ustilago striiformis</i>	<input type="text" value="0"/> Orange Stripe Rust <i>P. poarum</i>
<input type="text" value="0"/> Flag Smut <i>Urocystis agropyri</i>	<input type="text" value="0"/> Pythium Blight <i>Pythium</i> spp.
<input type="text" value="0"/> Pink Snow Mold <i>Fusarium nivale</i>	<input type="text" value="0"/> Red Thread <i>Corticium fujiciforme</i>
<input type="text" value="0"/> Ergot <i>Claviceps purpurea</i>	<input type="text" value="0"/> Other (Please Specify): Leaf Spot <i>D. siccanis</i>
<input type="text" value="0"/> Fusarium Blight <i>Fusarium roseum</i> , <i>F. tricinctum</i>	<input type="text"/> Other (Please Specify):
<input type="text" value="0"/> Typhula Blight <i>Typhula</i> spp.	
<input type="text" value="0"/> Dollar Spot <i>Sclerotinia homoeocarpa</i>	

13. INSECTS, NEMATODES, RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

- Chinch Bug *Blissus* spp. (give species:)
- Sod Webworm *Crambus* spp. (give species:)
- Bluegrass Billbug *Sphenophorus parvulus*
- White Grub: Japanese Beetle, Chafer (give species)
- Greenbug Aphid *Schizaphis graminum*
- Other (Please Specify):
- Other (Please Specify):

14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Winterplay	2	Leaf Width	Winterplay	1
Height	Winterplay	1	Leaf Color Spring	Winterplay	2
Seed Size	Winterplay	1	Leaf Color Summer	Winterplay	2
Seed Weight	Winterplay	1	Leaf Color Winter	Winterplay	2
Cold Injury	Winterplay	2	Drought	Winterplay	2
Heat	Winterplay	2	Disease**		
Shade	Winterplay	2			

**Specify each disease evaluated.

15. ADDITIONAL DESCRIPTION

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

Exhibit D.**Additional Description of RAM100 (PST-OLS) (*Poa Trivialis* L.)**

RAM100 (PST-OLS) is a late maturing rough bluegrass that exhibits the following.

1. Good turf quality ratings in Oregon (Table 4).
2. Good turf quality in overseeding trials in California (Table 5).
3. Good turf quality in shade trials (Table 6).

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Table 4. 2000 mean turf quality ratings for entries in a *Poa trivialis* fairway turf trial seeded fall of 1999 near Hubbard, OR. (9 = ideal)

Entry	Mean
RAM100	5.3
Winterlinks	5.1
Winterstar	5.1
Winterplay	4.0
LSD (0.05)	1.1

Table 5. 1997 mean (Jan-April) turf quality ratings for a perennial ryegrass and *Poa trivialis* winter overseeding trial seeded fall of 1996 near Thermal, CA. (9 = ideal)

Entry	Mean
Chaparral	8.3
Roadrunner	8.1
Citation III	7.9
Brightstar II	7.6
2GX	7.3
Salinas	7.3
Catalina	7.2
Brightstar/Quickstart	7.2
246S	7.1
Brightstar	7.1
Quickstart	7.0
2AH	7.0
Winterplay <i>Poa Trivialis</i>	6.8
2PS	6.8
Saturn II	6.8
2TCR	6.6
2CX	6.5
2RN	6.5
Navajo	6.5
Stardance	6.4
Charger II	6.4
2KA	6.4
RAM100 <i>Poa Trivialis</i>	6.3
2CL-95	6.3
Omega 3	6.3
Sunrye	6.2
Winterstar <i>Poa Trivialis</i>	6.2
Charger	5.8
Sabre <i>Poa Trivialis</i>	5.0

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Table 6. Mean turf quality ratings for a *Poa trivialis* shade turf trial seeded fall of 1994 near Hubbard, OR. (9 = ideal)

<u>Entry</u>	<u>1995</u>	<u>1996</u>	<u>Mean</u>
RAM100	6.0	4.7	5.3
Cypress	5.4	5.0	5.2
Laser	5.8	4.6	5.2
SYN OOE	5.7	4.3	5.0
Winterplay	5.9	4.0	4.9
Winterstar	5.6	4.1	4.8
4088	4.1	4.6	4.3
Polder	3.7	4.1	3.9
4209	1.9	2.3	2.1
LSD (0.05)	1.3	1.2	0.8

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 652a) and the Paperwork Reduction Act (PRA) of 1995.

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Pure Seed Testing, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PST-OLS	3. VARIETY NAME RAM100
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 449 Hubbard, OR 97032	5. TELEPHONE (include area code) (503) 651-2130	6. FAX (include area code) (503) 263-0703
7. PVPO NUMBER #200400071		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country ☒ YES ☐ NO

10. Is the applicant the original breeder? If no, please answer the following: ☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country

b. If original rights to variety were owned by a company:
Is the original breeder(s) U.S. based company? If no, give name of country ☒ YES ☐ NO

11. Additional explanation on ownership (If needed, use reverse for extra space):

Pure Seed Testing, Inc. has licensed PST-OLS to Ragan & Massey, Inc., of Ponchatoula, LA, to grow, produce and market this variety throughout the world.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (now licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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